

ABSTRACT OF THE DISCLOSURE

A gas turbo group has a combustion chamber comprising a catalytic burner stage (2), a preburner stage (1) located upstream from the catalytic burner stage, as well as a non-catalytic burner stage (11, 5, 6) located downstream from the catalytic burner stage. The preburner stage serves to always maintain a temperature (T_1) at the inlet into the catalytic stage that corresponds at least to a minimum temperature (T_{MIN}) necessary for operating the catalytic burner stage. According to the invention, the gas turbo group is operated so that the burner stage located downstream from the catalytic combustion chamber is taken into operation only when the temperature (T_2) at the outlet from the catalytic stage has reached an upper limit in the presence of a maximum combustion air mass flow.